

ABSTRACT OF DISCLOSURE

A receiver is disclosed that demodulates an Orthogonal Frequency Division Multiplexing (OFDM) symbol transmitted by an OFDM method. The receiver includes a delay profile generation unit that generates a delay profile regarding a preceding wave and a delayed wave included in a received signal, a demodulation unit that demodulates the received signal so as to output a demodulated signal per sub-carrier, a hard-decision unit that makes a hard decision per sub-carrier on a signal point based on the demodulated signal so as to output a hard-decision signal, a replica generation unit that uses the hard-decision signal to generate a replica signal per sub-carrier, and an inter-carrier interference suppression unit that adds a difference between the hard-decision signal and the replica signal to the demodulated signal so as to suppress an inter-carrier interference.